

Sequences 030626.ST25  
SEQUENCE LISTING

<110> Impact Diagnostics  
Impact Diagnostics

<120> Peptides from the E2, E6 and E7 Proteins of Human  
Papillomaviruses 16 and 18 for Detecting and/or Diagnosing Cervical  
and Other Human Papillomavirus Associated Cancers

<130> 3352-2-2

<150> US 60/394,172

<151> 2002-07-02

<150> US 09/828,645

<151> 2001-04-05

<160> 8

<170> PatentIn version 3.1

<210> 1

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Derived from the E2 region of HPV 18

<400> 1

Lys Gln Leu Gln His Thr Pro Ser Pro Tyr Ser Ser Thr Val Ser Val  
1 5 10 15

Gly Thr Ala Lys Thr Tyr  
20

<210> 2

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Derived from the E2 early coding region of HPV 16

<400> 2

Lys His Gly Tyr Thr Val Gln Phe Asp Gly Ile Cys Asn Thr Met His  
1 5 10 15

# Sequences 030626.ST25

Tyr

<210> 3  
 <211> 23  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Derived from the E2 early coding region of HPV 16

<400> 3

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Ala | Gly | Gly | Gln | Val | Ile | Leu | Cys | Pro | Thr | Ser | Val | Phe | Ser | Ser |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|
| Asn | Glu | Val | Ser | Ser | Pro | Glu |
|     |     |     | 20  |     |     |     |

<210> 4  
 <211> 22  
 <212> PRT  
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<220>  
 <223> Derived from the E6 early coding region of HPV 16

<400> 4

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Arg | Asp | Gly | Asn | Pro | Tyr | Ala | Val | Cys | Asp | Lys | Cys | Leu | Lys | Phe | Tyr |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|
| Ser | Lys | Ile | Ser | Glu | Tyr |
|     |     |     | 20  |     |     |

<210> 5  
 <211> 22  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Derived from the E6 early coding region of HPV 18

<400> 5

Sequences 030626.ST25

Lys Cys Ile Asp Phe Gly Ser Arg Ile Arg Glu Leu Arg His Tyr Ser  
1 5 10 15

Asp Ser Val Tyr Gly Asp  
20

<210> 6  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Derived from the E7 early coding region of HPV 16

<400> 6

Glu Gln Leu Asn Asp Ser Ser Glu Glu Glu Asp Glu Ile Asp Gly Pro  
1 5 10 15

Ala Gly Gln Ala Glu  
20

<210> 7  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Derived from the E7 early coding region of HPV 16

<400> 7

Glu Thr Thr Asp Leu Tyr Cys Tyr Glu Gln Leu Asn Asp Ser Ser Ser  
1 5 10 15

Glu Asp Glu Ile Asp  
20

<210> 8  
<211> 22  
<212> PRT  
<213> Artificial Sequence

<220>

Sequences 030626.ST25

<223> Derived from the E7 early coding region of HPV 18

<400> 8

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| His | Leu | Gln | Pro | Gln | Asn | Glu | Ile | Pro | Val | Asp | Leu | Leu | Cys | His | Glu |
| 1   |     |     |     | 5   |     |     |     |     | 10  |     |     |     |     | 15  |     |

|     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|
| Gln | Leu | Ser | Asp | Ser | Glu |
|     |     |     | 20  |     |     |